

# 10 Best Reasons to Use Java for Mobile App Development in 2023

Do you know developers prefer Java as a programming language for mobile app development?

According to Stack Overflow, 33.4% of professional developers loved using Java as a programming language.

Java application development has long been popular because it allows developers to develop mobile solutions that are safe, reliable, and full of features. Java is a cutting-edge technology that is in high demand and has many advantages [Mobile App Development](#), especially over other languages and environments.

The advantages that Java offers make it the greatest programming language for developing mobile applications. Developers loved using this language because of the large community, the simple learning curve, a convenient development tool and so forth. Look closely at the 10 best reasons why Java is the platform of choice for creating mobile apps.

Continue reading to know more in detail!

## 7 Best Reasons to Use Java for Mobile App Development in 2023

Java is one of the most well-liked programming languages for mobile app development and has several reasons to select Java as a programming language for mobile app development apart from other languages.

**1. High-Level Application Development:** Businesses today favor mobile apps that can serve thousands of users in one form or another. As a result, they use programming languages that let them create such products. Enterprises with high needs and scalability always favor using Java. The best method for offering multi-threading and high-level products. It provides capabilities for advanced exception handling and facilitates multitasking.

Java appears to be the programming language that lends itself the best to creating premium mobile applications. Numerous built-in features assure optimum resource use and have an impact on product performance. Java can accommodate and manage multiple users at once without impairing the product's speed. It is critical for smaller businesses to be able to adapt to various user levels at any moment, especially when they may find that their resources are expanding after they launch the app.

**2. Low Investment and Budget:** The primary goal of every business when creating a mobile application is a return on investment. The use of Java-based solutions demonstrates excellent cost-effectiveness and enables the development of high-performance applications with only minimal investment.

In addition, there are professionals who offer top-notch Java services at competitive pricing because Java is one of the programming languages with the largest user base. All of this results in more effective hiring decisions for your company, lower recruitment expenses and better final results.

**3. Object-Based:** Java is now the most widely used programming language among developers as a result. Since Java is an object-oriented language, it adheres to a programming paradigm that incorporates ideas like class, object, inheritance, etc. It is significantly simpler to create an application using object-oriented programming since it keeps the system modular, adaptable, and extensible.

Java enables the use of an object-oriented design model, which makes writing code in this language the best choice for developers.

**4. Flawless Community Support:** Similar to Android, developers can profit from seamless extended community support that allows problems to be fixed immediately. Additionally, the developer community welcomes all programmers, regardless of expertise level, and offers crucial real-time support.

Java developers can network with other programmers who share their interests and gain a practical understanding of the language. A vibrant developer community exchanges knowledge and relevant data to aid newcomers in honing their coding abilities.

The developer community is always willing to hear you out, whether you need assistance with a problem or to keep the conversation friendly.

**5. Access to Powerful Development Tools:** Incredibly, Java includes some of the most powerful tools for creating mobile applications, like Eclipse, Netbeans, Android Studio, etc. Java is among the top programming languages for creating mobile apps thanks to tools like Eclipse and Netbeans.

The ability to contribute to debugging, which is crucial in real-world development, is made possible by a robust toolkit. Java development is easier to use, quicker, and more efficient with an integrated development environment (IDE). It is simple to search for, read, and edit Java code while using an IDE.

**6. Cross-Platform Development:** When developing a mobile app, multi-platform development has many benefits over native development, including a single code base for all platforms, simpler and faster deployment, reduced development time and cost, coverage of a larger user base, acceptability of the same user interface and UX, and others.

Java is incredibly popular for mobile development since it is appropriate for cross-platform development. It is based on the principle of "write once, run anywhere." The application code just needs to be created once in order to work on Windows, Android, iOS, and other operating systems. Java is a very profitable programming language because of the write once, run anywhere strategy which allows you to considerably reduce costs associated with creating different apps for each platform.

**7. Highly Scalable and Versatile:** Modern businesses depend on growth potential, which is why flexibility in mobile app development is essential. The truth is that nobody wants to stop at MVP once they've started.

Java enables you to scale your product by incorporating additional features and evenly spreading the load. As a result, there are countless prospects for business growth.

The numerous scalable features of Java are also highly valued by businesses. Since it is platform-independent, it can be used on a variety of platforms without requiring major changes. It's also a great choice for small businesses that want to expand as projects grow because it can move to different environments, including the cloud.

Java also meets the requirements to create a wide range of products. Since it is a general-purpose language, it can be used for various problems. Java may be used to create a wide range of products, from Android apps and games to GUI desktop apps and server-side web development.

This makes it possible for businesses and startups trying to enter the software market to work with one Java development company to deploy several products without needing to hunt for additional talent.

**8. Advanced Testing Features:** Java provides robust and advanced testing features. A startup or small firm needs error-free products more than any other type of organization does. The entire project can be destroyed by the smallest mistake.

The user experience is generally enhanced by Java programming language, which also offers the most accurate testing so that Java developers can find bugs and gaps early. Numerous development tools offer a comprehensive Java testing procedure by executing a wide variety of tests (unit, requirement, integration, functional, and others).

**9. Strong App Security:** The main priority for any company is to create applications that are reliable and secure.

Java is completely secure, so you can be confident of that. In fact, security was prioritized when this language was being developed. Its interpreter, runtime, and compiler are made to make it impossible for hackers and other potential security problems to arise. Java experts accomplish this by utilizing features like error detection, encryption, authentication, code management, and others.

More significantly, the JVM (Java Virtual Machine) is used to run the application code created by developers. This method of code interpretation not only allows for cross-platform use but also guarantees a high level of security because any attempt to hack the system would result in its operation being suspended immediately. So, as a result of Java, all data is always 100% safe, which is an essential requirement for user and business confidence.

**10. Easy to Learn:** The ease of learning Java is another benefit. It is an accessible programming language that is frequently used. The programming language's simple syntaxes and code structures make it easier for developers to master it quickly. Regardless of your level of experience, once you understand the concept you can start studying Java. Learning Java will be enjoyable if you are comfortable with the concept.

## **What is the Future of Java, will it be Still Relevant in the Coming Years?**

The use of Java development is currently very widespread and will continue to be so in the near future. Java is now regarded as a mature programming language with a robust environment for creating mobile applications. Additionally, key trends including security features, scalability, access to a talent pool at competitive rates, regular updates and community support, and integration with

the newest emerging technologies will determine the success of mobile app development in the future.

## **Today and in the future, Java is the best option for app development:**

If you want to start with a minimum viable product for testing your hypotheses, then develop it to the level of a large multifunctional application. Java will let you scale your project.

If your solution is quite extensive and complex, the functionality is large and requires the implementation of many elements — an abundance of frameworks and libraries in Java provides limitless possibilities.

If your solution is non-standard, there are no comparable examples on the market, and development organizations lack experience with such scenarios. Any issue that arises throughout the development process will be resolved thanks to the abundance of opportunities and options and the assistance of a large community.

If you want to ensure that your project will be profitable before investing significant resources (both permanent and temporary). Also, high financial benefits are confirmed by statistics on the return on investment of Java software solutions.

## **Conclusion**

Java is a fantastic programming language for app development because it has a wide collection of libraries, strong features, and a diverse ecosystem.

However, the aforementioned best reasons make Java one of the most popular programming languages used today by the app development community.